

## ABSTRACT

Electromagnetic control valve is disclosed. A permanent magnet and a needle are fitted in a cylindrical valve body, and a coil, and first and second yokes are mounted on an outside circumferential surface of the valve body. There are first and second ports in the valve body for making an outside space and an inside space of the valve body in communication. There is an orifice in the valve body for making the first and the second ports in communication. The needle is disposed at a position opposite to a side of the orifice, for moving in an up/down direction when a current is applied to the coil. Direction and amount of movement of the needle are dependent on a direction and an intensity of the current applied to the coil. When the needle moves, a tip of the needle varies an opened area of the orifice linearly, according to which a flow rate of the fluid passed through the orifice is controlled according to a position of the needle.